

Block Island Wind Farm CVA

Status Update Project Verification

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Status of BIWF - Overview

ABS Status Update Topics

- 2015 Summary
- FDR and FIR for 2016 work
- Manufacturing Status
- Installation Status

2015 Summary

- Completed detailed design and load simulation
- Completed FDR and FIR for 2015 installation scope
- Started and Completed substructure manufacturing
- Continued wind turbine manufacturing
- Started export cable manufacturing
- Started installation offshore Block Island

FDR and FIR for 2016 Activities

- FDR and FIR documents received for wind turbine and export cable
- ABS has issued DCS's to clarify questions or request additional information
- ABS and DWBI are coordinating to close all open items
- FIR will be updated with additional information:
 - 8 weeks prior to start of substructure finish work
 - 8 weeks prior to start of export cable installation
 - 8 weeks prior to start of wind turbine installation
 - 8 weeks prior to start of wind turbine commissioning

(as agreed between the parties and CRMC)
- Current ABS 2016 surveillance is planned for one turbine to be observed during construction, installation and commissioning

Manufacturing Status

Sub-sea Cable

- Manufacturing completed in Korea
- ABS witnessed factory acceptance and type tests Jan 2016
- Cable shipped Feb 2016

Wind Turbine (GE/Alstom)

- Component manufacturing is mostly complete
- Generator assembly and test ongoing in St. Nazaire, France
- Rotor-nacelle assembly and test ongoing in St. Nazaire, France
- ABS Surveillance scheduled March 8-11

Installation Status

Substructures

- All decks set, position and orientation verified, complete Nov 2015
- Finish work scheduled May 2016
 - Grouting
 - Sealing tops of legs
 - Final painting
 - Punch list items

Export Cable

- Installation scheduled to begin May 2016

Wind Turbines

- Pre-Assembly of T1-sections ongoing at ProvPort
 - ABS Surveillance Feb 22-23
- Offshore installation scheduled to begin July 2016
- Commissioning scheduled to begin August 2016

Overview – Status of Phases

	2015		2016	
	Substructure	Turbine (Loads and Type Cert)	Turbine (Project specific changes)	Cable and BOP
FDR	Complete*	Complete	Received, closing open items through DCS	Received, closing open items through DCS
FIR	Complete**	Received, closing open items through DCS		Received, closing open items through DCS
Fabrication	Complete	Ongoing		Complete
Installation	Finish work scheduled May 2016	Scheduled July 2016		Scheduled May2016
Operation	Scheduled November 2016			

* Changes made by Keystone Engineering following initial completion and submittal by DWBI. FDR requires revision submittal to CRMC

** Changes to installation sequence and schedule from 2015 FIR. FIR requires revision submittal to CRMC

Next Steps

- Update 2015 FDR and FIR reports
- Finalize 2015 installation report
- Complete review of 2016 FDR and FIR
- Witnessing of ongoing activities (France, ProvPort)

